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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,719	06/24/2005	Gwon Jin Moon	09983.0150USWO	2417
23552 7590 05/29/2008 MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903				
EXAMINER QUARTERMAN, KEVIN J				
ART UNIT 2889		PAPER NUMBER		
MAIL DATE 05/29/2008		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/540,719

Applicant(s)

MOON ET AL.

Examiner

Kevin Quarterman

Art Unit

2889

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☒ Claim(s) 4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 June 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/CIS) Paper No(s)/Mail Date 0605
- 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Reference character "5" of Figure 1 is not mentioned in the description. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
2. Figures 1-6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the

applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 4 is objected to because of the following informalities: Claim 4 recites the limitation "the rear substrate" in line 2 of the claim. Since there is no previous recitation of a *rear substrate* in the claim, there is insufficient antecedent basis for this limitation in the claim.
4. Claim 4 also recites the limitation "the most outside barrier rib" in lines 1-2 of the claim. There is only one barrier rib recited in independent claim 1, upon which claim 4 depends. There is insufficient antecedent basis for "the most outside barrier rib" in the claim, since there is no recitation of any other barrier ribs recited in the claim.
5. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
7. Claims 6-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
8. Claim 6 recites the limitation "the cross section" in lines 2-3 of the claim. There is insufficient antecedent basis for this limitation in the claim, since there are two different cross sections recited in the claim. Due to its dependency upon claim 6, claim 7 is also

rejected for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuura (US 5,670,843).

11. Regarding independent claim 1, Figure 1 of Matsuura shows a plasma display comprising at least one or more sides of a cross-section, wherein a barrier rib (5b) is formed along the cross section capable of preventing penetration through a seal line (13) of the cross section.

12. Regarding claim 2, Figure 1 of Matsuura shows the barrier rib extended to the edge of barrier ribs (5) formed vertically in a rear substrate (3) and formed perpendicular to the edge.

13. Regarding claim 3, Figure 1 of Matsuura shows an auxiliary barrier rib (9) formed between the barrier rib and the cross section and separated from the barrier rib in parallel.

14. Regarding claim 4, Figure 1 of Matsuura shows the barrier rib formed between the most outside barrier rib (5a) which is adjacent to the cross section of the rear substrate and the cross-section.

15. Regarding claim 5, Figure 1 of Matsuura shows a sealant (13) filled in a space between the barrier rib and the most outside barrier rib.

16. Regarding claim 6, Figure 1 of Matsuura shows a dielectric surface of the rear substrate removed as much as an area separated at a predetermined distance from the cross section, where a seal line is formed in a glass exposure condition.

17. Regarding claim 7, Figure 1 of Matsuura shows the removal of the dielectric surface of the rear substrate performed on the area between the barrier rib and the cross section.

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nakano (US 6,414,434) discloses a plasma display panel with first and second partition walls. Lee (US 6,809,476) discloses a plasma display panel. Nagano (US 5,428,263) discloses a discharge cathode device with stress relieving layer. Kimura (US 5,886,467) discloses a plasma addressed liquid crystal display device. Tanaka (US 6,400,080) discloses a plasma display panel with sealing layer and first, second, and third walls. Ko (US 7,030,560) discloses a plasma display panel having dummy barrier ribs. Yonehara (US 6,646,376) discloses a plasma display panel with partition walls having main parts and subparts.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571)272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin Quarterman
Primary Examiner
Art Unit 2889

/Kevin Quarterman/
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30 May 2008